To: 5.1.2e 5.1.2e 5.1.2e 5.1.2e 5.1.2e 5.1.2e 5.1.2e 6.1.2e 7.1.2e 7.1.2e <th7.1.2e< th=""> <th7.1.2e< th=""></th7.1.2e<></th7.1.2e<>	
Dear 5.1.2e	
Thank you! Last minute Here is the "diagnostic" paragraph:	
5.1.2i Concept	
Please modify according to your best consideration.	

I am waiting for the final text to move the clearance process further.

Many thanks!

5.1.2e					
From: 5.1.2e 5.1.2e	5.1.2e	@rivm.nl>			
Sent: 09 January 2020 13	3:07				
To: 5.1.2e 5.1.2e <	5.1.2e @	ecdc.europa.eu>; ^{5.1.2e} 5.1.2e <	5.1.2e	@ecdc.europa.eu>	
Cc: 5.1.2e 5.1.2e <	5.1.2e	@ecdc.europa.eu>; 5.1.2e 5.1.2e <	5.1.2e	@ecdc.europa.eu>	
Subject: RE: novel coronavirus identified					
Importance: High					

Hi,

You can't extrapolate the evd-labnet directory in this way. The labs indicate whether they can diagnose mers and sars but it does not say whether that was using a pan test! So please do not phrase it like this.

I'll send a text proposal for the email to the lab network in a few minutes for your comments and approval.

From	1: 5.1.2e	5.1.2e	<	5.1.2e	@ecdc.europa.eu>	
Sent	donde	rdag 9 ja	nuari 2	2020 12:17		
To:	5.1.2e	5.1.2e	<	5.1.2e	@rivm.nl>; 5.1.2e 5.1.2e < 5.1.2e @ecdc.europa.eu>	
Cc:	5.1.2e	5.1.2e	<	5.1.2e	@ecdc.europa.eu>; 5.1.2e 5.1.2e < 5.1.2e @ecdc.europa.eu>	
Subject: RE: novel coronavirus identified						



Cheers 5.1.2e

Thank you for these valuable pieces of information! We will update the Threat Assessment Brief and try to publish today. We are

going to mention that it is most likely a novel betacoronavirus and the pan-corona detecting methods most probably can pick it up. We can put a link to EVD-LabNet directory that <u>28 laboratories within the network</u> has such capacities. I fully agree with your suggestions. Particularly to avoid false positive results, all positive tests must be confirmed by sequencing or by further testing in CoV specialis laboratory.

We will keep you updated and warmly welcome anu further information!

Best regards,

5.1.2e

From: 5.1.2e 5.1.2e	< 5.1.2e	@rivm.nl>			
Sent: 09 January 2020 1	1:56				
To: 5.1.2e 5.1.2e <	5.1.2e @ec	c.europa.eu>; 5.1.2e 5.1.2	2e <mark><</mark>	5.1.2e	@ecdc.europa.eu>
Cc: 5.1.2e 5.1.2e <	5.1.2e	ecdc.europa.eu>; 5.1.2e 5	5.1.2e <mark><</mark>	5.1.2e	@ecdc.europa.eu>
Subject: novel coronavi					

Hi,

Just an update: I'm preparing an e-mail to the network with some lab response advice. I needed to contact Berlin, EMC and PHE as well for this. So a delay till they respond.

Suggested line:

-as long as sequence info has not been shared and an international protocol for 5120 detection has not been developed and shared, labs have to run based on existing pan-corona/pan-beta-corona tests. -sofar there is no reason to believe that they won't pick up the virus although we can't be sure they can (I understood 70% homology with SARS).

-If labs do get a diagnostic request they can either use these tests (if available) or send to a CoV specialist lab in Europe.

I have contacted EMC, Berlin and PHe for the latter. Also asked 5.1.2e whether they have a pan test in the SARS-Like subgroup they would advice.

Of course all with stressing what we do not know etc. and mentioning that an international effort is ongoing to get the sequence released and to develop protocols that can be shared.

Please give me your feedback if you think this is a fine plan,

5.1.2e

From: 5.1.2e 5.1.2e <	5.1.2e	@ecdc.europa.eu>			
Sent: donderdag 9 janua	ri 2020 09:23	3			
To: 5.1.2e 5.1.2e <	5.1.2e	@rivm.nl>; 5.1.2e 5.1.2e < 5.1.2e @ecdc.europa.eu>			
Cc: 5.1.2e 5.1.2e <	5.1.2e	<pre>@ecdc.europa.eu>; 5.1.2e 5.1.2e < 5.1.2e @ecdc.europa.eu></pre>			
Subject: RE: Doorst: PRO/AH/EDR> Undiagnosed pneumonia - China (HU) (05): novel coronavirus identified					

Subject: RE: Doorst: PRO/AH/EDR> Undiagnosed pneumonia - China (HU) (05): novel coronavirus idei



A <u>more detailed report</u> was published in Chinese news. We are considering to issue a Threat Assessment Brief vs. Rapid Risk Assessment. If it is indeed a novel coronavirus that might cause some diagnostic difficulties. I would like to ask you / EVD-LabNet experts, whether such pan-coronavirus RT-PCR exists that is based on conserved genome sequences, and would be able to detect viruses of all genera within the family Coronavirus? (I know that coronaviruses are rather diverse. However, there might be a region at ORF1ab – RdRp that is conserved enough for consensus primers). If not, it would also be great if you could send us a list of EVD-Labnet laboratories with capacities and capabilities for diagnosing this putative, novel virus (using NGS, microarray, virus isolation, whatsoever...)

I will look forward to your answer!

Many thanks indeed!

Best regards,

5.1.2e



855334

The novel coronavirus was genetically sequenced from a sample from 1 patient and subsequently found in some of the others affected in the city of Wuhan, according to people familiar with the findings. Chinese authorities haven't concluded that the strain is the underlying cause of sickness in all the patients who have been isolated in Wuhan since the infection 1st broke out in early December [2019], the people said.

There are many known coronaviruses -- some can cause ailments like common colds in humans, while others don't affect humans at all. Some - such as severe acute respiratory syndrome, or SARS, in 2003 - have led to deadly outbreaks, lending urgency to efforts to contain the current situation.

High Alert

Some past coronavirus outbreaks, such as SARS and MERS, have had high death rates. Yet, there is no suggestion this new illness would cause such issues so far.

SARS / MERS*

Cases: 8098 / 2468 Deaths: 774 / 851 Death rate: 9.6% / 34.5% When: 2002-2003 / 2012-Where first reported: China / Saudi Arabia

*As of September 2019

Sources: Centers for Disease Control and Prevention, World Health Organization

The number of reported cases of viral pneumonia in Wuhan, the capital of Hubei province, was 59 on Sunday, rising from 27 on [31 Dec 2019], according to Wuhan's Municipal Health Commission, with 7 people in a critical condition. No deaths have been reported.

The disease afflicting patients in Wuhan hasn't been transmitted from human to human, and health-care workers have remained uninfected, according to city health officials as of [5 Jan 2020], suggesting that what is sickening them is for now less virulent than SARS. Those ill in Wuhan are believed to have become sick through exposure to animals linked to a live seafood and animal market.

Health experts say one risk is that the disease could become a bigger threat as tens of millions of Chinese travel around the country during the Lunar New Year holidays that begin in just over 2 weeks.

Health authorities in Singapore and Hong Kong, cities that have direct flights from Wuhan, have issued alerts and quarantined patients travelling from the region who show signs of fever or breathing difficulties.

In Hong Kong on Tuesday [7 Jan 2020], the government said it was taking precautions against a "severe respiratory disease associated with a novel infectious agent" that it is seeking to make a statutory notifiable infectious disease, meaning doctors would need to report any suspected cases, and patients evading quarantine could be fined or jailed.

The Chinese Center for Disease Control and Prevention is expected to make an announcement of its findings in the coming days, a person familiar with the matter said. The CDC couldn't be reached for comment late Tuesday [7 Jan 2020].

China was criticized for initially covering up SARS, which was 1st detected in late 2002 but was disclosed only after it began spreading widely, eventually killing 774 people globally, according to the World

Health Organization. Beijing overhauled the nation's disease control after reviews found that initial failures to contain and isolate patients with SARS allowed it to proliferate across densely populated Southern China.

The Wuhan outbreak will test how much has changed. "We learned a bitter lesson in 2003, and we do not want that to happen again," said Alex Lam, chairman of advocacy group Hong Kong Patients' Voices. "China should immediately release their findings so doctors across the world can better know how to tackle this illness."

Hong Kong's department of health, citing information from China's National Health Commission, said the cause of the cluster of pneumonia cases detected in Wuhan was still under investigation, but other known respiratory pathogens had been ruled out.

The main clinical symptoms of those affected by the Wuhan outbreak are fever - with a few patients having difficulty breathing - and invasive lesions of both lungs, which show up on chest radiographs, the WHO said Sunday [5 Jan 2020].

It is unclear what the underlying source of the disease is, though the reported link to a wholesale fish and live animal market could indicate an exposure link to animals, the WHO said. Bats, for example, are known "reservoirs" for coronaviruses, and have been found to transmit the disease to humans through a third vector such as a civet cat, as scientists found in the case of SARS.

The pattern of the unexplained pneumonia cases linked to the market selling seafood and also live game strongly suggests that this is a novel microbe jumping from animal to human, said K.Y. Yuen, Chair Professor of Infectious Diseases at the University of Hong Kong's Faculty of Medicine.

Researchers have determined that a large proportion of new infectious diseases in humans are transmitted via animals. Such illnesses are referred to as zoonoses. 2 newer human coronaviruses, MERS-CoV and SARS-CoV, have been known to cause severe illness and death, according to the U.S. Centers for Disease Control.

The Wuhan strain is similar to bat coronaviruses that were a precursor to SARS, according to a person familiar with the new findings.

Given the marked advances in hospital isolation facilities, infection-control training and laboratory diagnostic capabilities in the past two decades, it is unlikely that this outbreak will lead to a major 2003-like epidemic, Mr. Yuen said.

In Wuhan, which has China's 1st Biosafety Level 4 laboratory - a specialized research laboratory that deals with potentially deadly infectious agents like Ebola - the market at the center of investigations has been shut down since [1 Jan 2020].

In Hong Kong, badly hit by the SARS virus, which claimed 299 lives locally in 2003, residents have donned surgical masks on the streets and public transport in recent days, despite no local cases of the Wuhan infection being confirmed.

[Byline:	5.1.2e		
-			
Communic	ated by:		
	5.1.2	2e	
and			
5.1.2e			
< 5.1.2e (@d12	<u>icana.com</u> >		

[This is not a surprising finding for all of the reasons stated in

previous posts (and speculated there as well). The well known coronaviruses are those that are responsible for the SARS (severe acute respiratory syndrome) and MERS (Middle Eastern Respiratory Syndrome) outbreaks in 2002-2003 and 2012 to the present respectively (see insert table in media report above.

Coronaviruses belong to the subfamily _Coronavirinae_ in the family _Coronaviruses are enveloped viruses with a positive-sense single-stranded RNA genome and with a nucleocapsid of composed of helical symmetry. There are other human coronaviruses that have been associated with mild upper respiratory symptoms (commonly referred to as the "common cold").

More information on this novel coronavirus from knowledgeable sources would be greatly appreciated.

A map of China showing locations of major cities in China can be found at <<u>https://www.chinadiscovery.com/china-maps/city-maps.html</u>>.

HealthMap/ProMED-mail map of Hubei Province, China: <<u>http://healthmap.org/promed/p/340</u>>. - Mod.MPP]

[See Also:

Undiagnosed pneumonia - China (HU) (04): Hong Kong surveillance http://promedmail.org/post/20200106.6874277 Undiagnosed pneumonia - China (HU) (03): updates, SARS, MERS ruled out, WHO, RFI http://promedmail.org/post/20200105.6872267 Undiagnosed pneumonia - China (02): (HU) updates, other country responses, RFI http://promedmail.org/post/20200103.6869668 Undiagnosed pneumonia - China (01): (HU) wildlife sales, market closed, RFI http://promedmail.org/post/20200102.6866757 2019

Undiagnosed pneumonia - China (HU), RFI http://promedmail.org/post/20191230.6864153]

ProMED-mail makes every effort to verify the reports that are posted, but the accuracy and completeness of the information, and of any statements or opinions based thereon, are not guaranteed. The reader assumes all risks in using information posted or archived by ProMED-mail. ISID and its associated service providers shall not be held responsible for errors or omissions or held liable for any damages incurred as a result of use or reliance upon posted or archived material.

Donate to ProMED-mail. Details available at:

<<u>https://www.isid.org/donate/</u>>

Visit ProMED-mail's web site at <<u>https://www.promedmail.org</u>>. Send all items for posting to: 5.1.2e @promedmail.org (NOT to an individual moderator). If you do not give your full name

name and affiliation, it may not be posted. You may unsubscribe at <<u>https://join.isid.org/promed/</u>>. For assistance from a human being, send mail to:

List-Unsubscribe: https://join.isid.org/promed/

Dit bericht kan informatie bevatten die niet voor u is bestemd. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en het bericht te verwijderen. Het RIVM aanvaardt geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten. www.rivm.nl De zorg voor morgen begint vandaag This message may contain information that is not intended for you. If you are not the addressee or if this message was sent to you by mistake, you are requested to inform the sender and delete the message. RIVM accepts no liability for damage of any kind resulting from the risks inherent in the electronic transmission of messages.

www.rivm.nl/en Committed to health and sustainability

Confidentiality Notice

If you are not the intended recipient of this message, you are hereby kindly requested, to, consecutively, refrain from disclosing its content to any third party, delete it, and inform its sender of the erroneous transmittal.

Dit bericht kan informatie bevatten die niet voor u is bestemd. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en het bericht te verwijderen. Het RIVM aanvaardt geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten. www.rivm.nl De zorg voor morgen begint vandaag

This message may contain information that is not intended for you. If you are not the addressee or if this message was sent to you by mistake, you are requested to inform the sender and delete the message. RIVM accepts no liability for damage of any kind resulting from the risks inherent in the electronic transmission of messages.

www.rivm.nl/en Committed to health and sustainability

Dit bericht kan informatie bevatten die niet voor u is bestemd. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en het bericht te verwijderen. Het RIVM aanvaardt geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten. www.rivm.nl De zorg voor morgen begint vandaag

This message may contain information that is not intended for you. If you are not the addressee or if this message was sent to you by mistake, you are requested to inform the sender and delete the message. RIVM accepts no liability for damage of any kind resulting from the risks inherent in the electronic transmission of messages

www.rivm.nl/en Committed to health and sustainability